

ABSTRACT OF THE DISCLOSURE

The invention provides a method of cleaving an O-linked oligosaccharide from a glycoprotein. The method comprises the steps of contacting a composition comprising a glycoprotein, wherein the glycoprotein comprises O-linked oligosaccharides, with a solution comprising a borane-ammonia complex to form a mixture comprising the glycoprotein and the borane-ammonia complex, incubating the mixture for a period of time sufficient to cleave the linked oligosaccharides from the glycoprotein, and forming a mixture comprising oligosaccharide alditol products and deglycosylated protein by-products.